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(FILE 'HOME' ENTERED AT 20:13:07 ON 18 SEP 2005)
DEL HIS

FILE 'CAPLUS' ENTERED AT 20:15:02 ON 18 SEP 2005

L1 2622211 S PREPN/IA
L2 2285 S (POLYOL(3W)ESTER#)/IA
L3 699915 S CATALYST/IA
L4 22414 S ?BOROHYDRIDE/IA
L5 32 S L1(4W)L2
L6 2 S L5 AND L4

FILE 'MARPAT' ENTERED AT 20:16:48 ON 18 SEP 2005

SET NOTICE DISPLAY 1
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FILE 'CAPLUS' ENTERED AT 20:17:59 ON 18 SEP 2005

SELECT L6 1 PN

FILE 'WPIDS' ENTERED AT 20:18:08 ON 18 SEP 2005

L7 1 S E1

FILE 'CAPLUS' ENTERED AT 20:19:48 ON 18 SEP 2005

L8 137028 S POLYOL?/IA
L9 2153 S L1(4W)L8
L10 2 S L9 AND 3 AND L4
L11 0 S ?ESTER/IS
L12 855871 S ?ESTER/IA
L13 10265 S L1(4W)L12
L14 13 S L13 AND L3 AND L4
L15 13 S L14 NOT L6
L16 13 S L15 NOT L10
L17 43247 S (FATTY(3W)ESTER#)/IA
L18 0 S L16 AND L17
L19 113951 S DISTILL?/IA
L20 0 S L16 AND L19
L21 43247 S (FATTY(3W)ESTER#)/IA
L22 125727 S ESTERIF?/IA
L23 291 S L22(4W)L21
L24 0 S L23 AND L3 AND L4
L25 73 S L23 AND L3
L26 0 S L23 AND L4
L27 10332 S (GLYCOL(3W)ESTER#)/IA
L28 67 S L1(4W)L27
L29 0 S L28 AND L4
L30 27 S L28 AND L3

FILE 'USPATFULL' ENTERED AT 20:25:49 ON 18 SEP 2005

ACT PREPS/Q

L31 QUE PREPAR? OR METHOD OR MAKING

L32 2975723 S L31
L33 27867 S (POLYOL(3W)ESTER#) OR (GLYCOL(3W)ESTER#)
L34 290426 S CATALYST
SAV L34 CATS/Q
L35 33212 S BOROHYDRIDE
L36 399 S L32(4W)L33
L37 20 S L36 AND L34 AND L35
L38 711716 S PY>2003
L39 14 S L37 NOT L38

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FILE 'CAPLUS' ENTERED AT 20:32:15 ON 18 SEP 2005
SELECT L6 2 PN

FILE 'WPIDS' ENTERED AT 20:33:31 ON 18 SEP 2005
L40 1 S E2

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:845286 CAPLUS
DOCUMENT NUMBER: 137:339299
TITLE: Transesterification procedure for the production of light-color fatty acid polyol esters in the presence of bases and reducing agents
INVENTOR(S): Falkowski, Juergen; Kopka, Joerg; Bender, Holger; Spoerer, Roland
PATENT ASSIGNEE(S): Cognis Deutschland GmbH & Co. Kg, Germany
SOURCE: Ger. Offen., 4 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10121866	A1	20021107	DE 2001-10121866	20010505
PRIORITY APPLN. INFO.:			DE 2001-10121866	20010505

OTHER SOURCE(S): MARPAT 137:339299
AB A procedure for the production of light-color fatty acid polyol esters is described which comprises the transesterification of (un)branched C6-22 fatty acid C1-4 alkyl esters (e.g., Me caprylate and Me caprinate) with polyols (e.g., glycerin) in the presence of reducing agents (e.g., NaBH4) and alkali bases (e.g., LiOH).

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:194790 CAPLUS
DOCUMENT NUMBER: 116:194790
TITLE: Improved esterification of oxyhydrocarbon polyols and its ethers
INVENTOR(S): Milstein, Norman
PATENT ASSIGNEE(S): Henkel Corp., USA
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9200947	A1	19920123	WO 1991-US4877	19910709

W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
PRIORITY APPLN. INFO.: US 1990-549834 A 19900709
AB Esterification of the title polyols and their ethers to light colored products without bleaching is improved by addition of a reducing agent before, during, or both before and during the esterification. Sorbitol, 50% aqueous H₃PO₂, stearic acid and NaBH₄ were reacted and after work-up resulted in sorbitol stearate of a lighter color than that resulting

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without the addition of the reducing agent. The reducing agent was added in an amount 25% over the stoichiometric amount required to reduced all the reducing sugars in sorbitol. The procedure involved cyclization first, then esterification. The ester had an acid number 10.00, a saponification number 149.2,

a hydroxyl number 238.1 and a m.p. 52.8-53.4°.